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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/612,807
Filing Date	July 2, 2003
First Named Inventor	Ingo Pinnau
Art Unit	1724
Examiner Name	Robert H. Spitzer
Attorney Docket Number	975-132

Sheet 1 of 4

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
RHS		US- 3133132	05/12/1964	Loeb et al.	
RHS		US- 3308107	03/07/1967	Selman et al.	
RHS		US- 3865845	02/11/1975	Resnick	
RHS		US- 3488335	01/06/1970	Braun	
RHS		US- 3980456	09/14/0976	Browall	
RHS		US- 4230463	10/28/1980	Henis et al.	
RHS		US- 4243701	01/06/1981	Riley et al.	
RHS		US- 4399264	08/16/1983	Squire	
RHS		US- 4431786	02/14/1984	Squire	
RHS		US- 4486202	12/04/1984	Malon et al.	
RHS		US- 4565855	01/21/1986	Anderson et al.	
RHS		US- 4594399	06/10/1986	Anderson et al.	
RHS		US- 4654055	03/31/1987	Malon et al.	
RHS		US- 4728345	03/01/1988	Murphy	
RHS		US- 4754009	06/28/1988	Squire	
RHS		US- 4767422	08/30/1988	Bikson et al.	
RHS		US- 4813983	03/21/1989	Nohmi et al.	
RHS		US- 4880442	11/14/1989	Hayes	
RHS		US- 4897457	01/30/1990	Nakamura et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
RHS		EP 0649676	04/26/1995	Roman et al.		

Examiner Signature Robert H. Spitzer

Date Considered

Dec. 14, 2004

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RHS		US- 4897457	01/30/1990	Nakamura et al.	
RHS		US- 4910276	03/20/1990	Nakamura et al.	
RHS		US- 4931181	06/05/1990	Blume et al.	
RHS		US- 4963165	10/16/1990	Blume et al.	
RHS		US- 5021602	06/04/1991	Clement et al.	
RHS		US- 5051114	09/24/1991	Nemser et al.	
RHS		US- 5091216	02/25/1992	Ekiner et al.	
RHS		US- 5117272	05/26/1992	Nomura et al.	
RHS		US- 5131927	07/21/1992	Bikson et al.	
RHS		US- 5141642	08/25/1992	Kusuki et al.	
RHS		US- 5268411	12/07/1993	Yokotsuka et al.	
RHS		US- 5288304	02/22/1994	Koros et al.	
RHS		US- 5407466	04/18/1995	Lokhandwala et al.	
RHS		US- 5498682	03/12/1996	Navarrini et al.	
RHS		US- 5510406	04/23/1996	Matsuo et al.	
RHS		US- 5710345	01/20/1998	Navarrini et al.	
RHS		US- 5883177	03/16/1999	Colaiana et al.	
RHS		US- 5962612	10/05/1999	Takakura et al.	
RHS		US- 6011192	01/04/2000	Baker et al.	

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Examiner

Robert H. Spitzer

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## U. S. PATENT DOCUMENTS

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[illegible]

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		First Named Inventor	Ingo Pinnau
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		Examiner Name	Robert H. Spitzer
Sheet 4 of 4	Attorney Docket Number	975-132	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RHS		F. G. RUSSELL, "Operating Permeations Systems," Hydrocarbon Processing, Vol. 62, pp. 55-56, (1983).	
RHS		J. M. S. HENIS, "Comm. and Practical Aspects of...", in Polymeric Gas Sep Membranes, p. 474-477, 580-584, Paul and Yampol'skii (Eds.), CRC Press, Boca Raton, FL (1994).	
RHS		V. ARCELLA et al., "A Study on a Perfluoropolymer Purification and Its Application to Membrane Formation" J. Memb. Sci. 163, pp. 203-209 (1999).	
RHS		I. PINNAU et al., "Gas and Vapor Transport Properties of Amorphous Perfluorinated Copolymer Membranes..." J. Memb. Sci. 109, pp. 125-133 (1996).	
RHS		A. Y. ALENTIEV et al., "High Transport Parameters and Free Volume of Perfluorodioxole Copolymers," J. Memb. Sci. 126, pp. 123-132 (1997).	

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